A DIP INTO SPACE

From Our Little Solar System to the Far Starry Limits.

SOME MARVELOUS DISTANCES

The Stellar Universe as We Know It and What It Means In the Matter of Miles to Reach Its Boundaries From the Center of Our Own Sun.

It is worth while making an effort to picture to ourselves the vast extent of the storry system in which we reside. Having gained some faint notion of the extent of the lesser solar system. which occupies a small corner of the stellar system, we must work outward from that beginning. Let us take for our unit of measurement the space which separates the earth from the sun and let the 92,000,000 miles of this distance be represented in our minds by a single inch. In proportion the sun itself must be pictured by a tiny ball less than one bundredth part of an inch in diameter, while our earth must be a mere speck less than one ten-thousandth of an inch in diameter. And this little sun and this minute earth must be just an inch asunder.

Following out the same idea, Mercury and Venus, being closer to the sun than we are, have to be less than an inch away from him, while Jupiter will be five inches off, Saturn will be ten inches off, Uranus will be over nineteen inches off. Neptune will be almost thirty inches off. Then the solar system as a whole, leaving only out of the question certain comets which travel farther, will be inclosed in a circle less than two yards in diam-

The question arises next, What will be the proportionate size of the stellar system on this same scale of measurement? If the solar system is to be comprised with a hoop not two yards across how wide a space should we allow to the surrounding system of stars, "our universe?" How near will be the nearest of outlying stars? And the answer is sufficiently startling. If the sun is reckoned to be one inch away from our earth, if Neptune is reckoned to be less than three feet away from the sun, then on the same scale the star which lies closest of all outer stars in the whole universe to us, Alpha Centauri by name, must be reckoned as lying at a distance of about three and a half miles. And between the two-nothing; at least nothing in the shape of a star. An occasional comet may lag slowly along in the darkness, finding its way from one sun system to another, and dark bodies, cooled suns, may possibly float here or there unseen by us, but of stars radiant with heat and light none is found in that wide area. Astronomical writers sometimes talk

of stars "in the vicinity" of the sun. and this is what is meant by "vicinity." Think of the distances implied. Our whole solar system is first brought down into a small circle two yards ery inch in those yards stand Ing for more than 90,000,000 milesand then on every side and above and below is an encompassing void of three and a half miles, every inch of those miles again representing more than 90,000,000 miles. And then we come upon one gleaming star. Only one quite so near. Another star in the sun's "vicinity," known as 61 Cygni, would lie at a distance of seven miles, and the brilliant Sirius would be over ten miles off. Others must be placed at distances of twenty miles, fifty miles, 100 miles. It is easy to start with a list of these tigures. It is not easy to say where one should stop. That the starry system has limits we do not doubt, but to define those limits is not possible. On such a scale as is given above those limits certainly would not lie within a distance of 100 miles nor of 1,000 miles.

It is believed that some dim stars, barely to be detected, may be 10,000 times as far away as our sun's nearest neighbor, Alpha Centauri, and this at once gives, even on our much reduced scale, a line from the center of 35,000 miles. Suppose that the limits of the stellar system by somewhere about there. Thirty-five thousand miles each way from the center would mean a diameter for the whole of 70,000 miles. Imagine a starry system 70,000 miles across from side to side, each inch in those miles representing 92,000,000 of real miles, and somewhere in the midst of it our small solar system, just two yards across, separated from all other stars by a wide blank of three or four

That would be stupendous enough. But we have no reason whatever for supposing that the limits of our universe do lie there. The true boundaries of the stellar system may be twice as far, four times as far, ten times as far We do not even know with certainty that our solar system is placed anywhere near its center, though this seems rather likely. Far off as the boundary reaches in one direction, it may reach much further in another ditection.-Chambers' Journal.

An Ant Illusion.

The idea of mutual aid among ants is pronounced by M. Cornetz, a French entomologist, to be an illusion. In his observations, a single ant drags a load rapidly toward the nest, but when others take hold of the object they pull in different directions, and slow progress is made.

The gain of lying is nothing else but not to be trusted any more, nor to be believed when we say the truth.-Sir Walter Scott.

Quality of Humor. A famous definition of the quality of humor is this: "For this humor is an adjunct divine; it is a value of life; it makes for greater things than clean laughter from the lungs. It is the root of tolerance, the proof of patience; it suffers long and is kind; serves to tune each little life harmony with the world harmony about it; keeps the heart of man sweet, his soul modest. And at the end, when the light thickens and the mesh grows tight, humor can shape the suffering vigils of the sleepless, can soften pain, can brighten the ashy road to death."

Hard to Say. "If your mother bought four baskets of grapes, the dealer's price being a quarter a basket, how much money would the purchase cost her?" asked

the new teacher. "You never can tell," answered Tommy, who was at the head of the class. 'Ma's great at bargaining?'-Ladies' Home Journal.

What He Imagines. "Is he concelted?"

"I wouldn't put it that way. But I do know that every time he writes a check he imagines that the grocer is going to have it framed and hung up just to show his signature."-Detroit Trae Press.

Greenville Markets. Corrected Every Wednesday Morning GRAIN

Old Wheat New Wheat 88 Corn, per 100lbs..... 88 Oats.....Old 35, New 35 must charge \$1.50 a year for Rye 55 Clover Seed.. 7 00 Timothy Seed 2 50 mands this and we can do PRODUCE Eggs 17 obey.

Chickens..... 13 Turkeys 16 Bacon..... 12

If You Own Cows

It will not only be interesting but it will be profitable for you to read that fittle national dairy magazine, Kimball's Dairy Farmer. It is published semi-monthly at Waterloo, lowa, the hub of the great dairy region of the central west. It is ably edited, well printed on good book paper and handomely illustrated by actual photographs taken exclusively for it. Its purpose is educational and to the man who would make his cows yield larger profits, this little magazine is indispensable. Regardless of how many other papers the farmer may take, this one is worth many times its price to him. The subscription price is only 50 cents a year, and the paper will positively be discontinued at expira

Kimball's Dairy Farmer Waterloo, Iowa.

To Our Farmer Readers

We can highly recommend this handsome dairy magazine to our farmer friends. Every man who owns cows will find it worth many dollars to him Here is our offer to farmers: Kimball's Dairy Farmer 1 year...\$.50 Greenville Journal 1 year\$1.00

Regular price of both..\$1.50 For a limited time we will send both one year to our farmer friends for

Journal, Greenville. O.

What

-Nicer

Present

Your

Friend

Than

Year's Subscription

The

Journal?

A Good Clubbing Offer.

Greenville Journal, one year, regular price - - - \$1.00 McCall's Magazine, one year, regular price - - - One McCall Pattern, regular

Total Value - 1.65 We will furnish the above combintion for a limited timely on for \$1.30.

McCall's Magazine and McCall Patterns

For Women Have More Friends than any other magazine or patterns. McCall's is the reliable Fashion Guide monthly in one million one hundred thousand homes. Besides showing all the latest designs of McCall Patterns, each issue is brimful of sparkling short stories and helpful information for women.

Save Money and Keep in Style by subscribing for McCall's Magazine at once. Costs only 50 cents a year, including any one of the celebrated McCall Patterns free.

McCell Patterns Lend all others in style, fit, simplicity, economy and number sold. More dealers sell McCall Patterns than any other two makes combined. None higher than accents. Buy from your dealer, or by mail from McCALL'S MAGAZINE

236-246 W. 37th St., New York City

Subscribe torthe

The American Boy is a moral dynamo—a magazine devoted ex-clusively to the whole boy—a magazine that imbues the boy with high morals, honor and manliness. 500,000 boys are now enthusiastic The American Boy contains stories of the things boys like to read about—adven-ture, travel, history, photography, stamps, electricity, car-pentry, sports, current svents, etc., all beautifully illustrated. And a department devoted to the Boy Scouts of America, to which Ernest Thompson Soton, Chief Scout, contributes an illustrated page each month. It is the best magazine for oys in all the world. Give it to your boy! \$1 for a whole year. The American Boy (1 year) Si | BOTH FOR

A daren 3017341.53111.51111.4

92

GREENVILLE, OBIO

Has the jurgest Capital Surplus and Responsibility of any Bank in Parke County. 14 regularly exa ed under Government supervision.

Capital of the Bank is - \$100,000 Shareholders' Liability is - 100,000 Surplus of Bank is - - 170,000

Total Responsibility is - \$370,000 all of which is a guarantee of abso lute protection to its depositors. We invite your business, which shall have our best attention. Money in shape of drafts issued available all over the world. According to the post of-

KIRK HOFFMAN,

fice ruling subscribers must

keep their credit within one

year of time of expiration of

their subscription, or we

the paper. Uncle Sam de-

nothing in the matter but

Try

One of

Our

Clubbing

Offers.

It'll Pay.

This Paper

USES THE

Special Newspaper

Auxiliary Service

Western Newspaper Union

(Cincinnati, Ohio, Branch)

The Largest Publishing House

in the World

Read the splendid special and illustrated features secured ex-clusively for our renders, print-ed on the inside pages in each issue of this newspaper.

Attorney-at-Law. All business confided to my care willre ceive prompt attention. OFFICE,-Room 2, Weaver Block, B'dway

> \$1.30 For The Greenville Journal and

THE Toledo Blade

Toledo. Ohio.

OUR CLUBBING LIST.

The following special offers are made to both old and new subscribers to this

We cannot mail sample copies of any paper except the Journal. Requests for samples of others must be sent direct to the office the paper wanted, if we cannot supply you in person at this office.

The figures show the price at which the publication named and the Journal will both be sent for one year:

Scientific American, New York
Kansas City Star.
Chicago Inter Ocean and Farmer.
The Blade, Toledo.
St. Louis Globe-Democrat
Dayton Daily Herald.
Dayton Daily Herald.
Dayton Daily News.
Cincinnati Post.
Daily Ohio State Journal (B F D only).
Dayton Daily Journal (R F D only).
Cosmonolitan Magazine.
McCall's Magazine.
The American Boy.
Our Dumb Animals.
Kimball's Dairy Farmer.
Woman's Home Companion. Poultry Topics...... Goodail's Farmer.....

GOOD PAPERS

OF ONE SEE CLUB LIST

Special

trated on timely topics in ever issue of this paper, written b. the world's cleverest newspaper contributors and part of our

Special Service

run exclusively in this paper in this territory. Good live matter of interest to all. An education in itself. Start this week and read them all. Equal to special features of any of the best magazines and covering the things of special interest e throughout the world.



Scientific American. A handsomely illustrated weekly. Largest disculation of any scientific fournal. Torms, 33 year; four months, \$1. Sold by all nowedcalers.

MUNN & CO. 361Broadway, New York

Branch Office, &5 F St., Washington, D. C.

KILLTHECOUGH FOR COUGHS FREE BOY & \$1.00

AND ALL THROAT AND LUNG TROUBLES

GUARANTEED SATISFACTORY OR MONEY REPUNDED.

The Greenville Journal and

The Weekly Inter Ocean and Farmer BOTH A FULL YEAR FOR ONLY

\$1.30

All the News of the World and Home Only 3Q Cents More than Price of the

The Greenville Journal Alone.

OUR OFFER

The price of the Weekly Inter Ocean and Farmer is \$1.00 The price of the Greenville Journal is - - - - \$1.00 The two papers each one year will cost only . . . \$1.30 year; six months to 50

ONE Subscription TWO years or TWO yearly subscriptions in One Order

Your Own Paper Free

1. For every TWO YEARS' subscription, other than your own, that you send with remittance of \$1.50, the special rate, your own time will be extended, from its present expiration, THREE Months without charge.

2. For every club of TWO YEARLY subscriptions, Friends, give this matter

other than your own, in one order that you send with, remittance of \$1 50, the special rate for both, your own a careful thought. time will be extended, from its present expiration THREE Months without cost to you
3 For every single YEARLY subscription, other than

your own, that you send with remittance of \$1.00, the regular price, your own time will be extended THREE Months Free.

ORDER BLANK

Remittance must accompany each order. Send money by Post forfice or Ex rese Money Order or Registered Letter. Fill out and mail direct to JOURNAL, GREENVILLE, OHIO.

JOURNAL, GREENVILLE, OHIO: Inclosed find \$ for which please send the Greenville Journal to names below 2nder your special offer, and extend my

NAMES	Years		POST OFFICE	STATE
	·			
······································				
Write you	cown	name and	address below:	

Combination

niah the Twice A-Week

The St. Louis Globe-Democrat

AND THE

Greenville Journal

Both Papers One Year, only \$1.60.

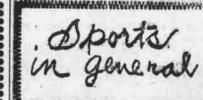
E. C. OTWELL, Greenville, Ohio

.....................

of intense interest, fully illustrated on timely topics in every issue of this paper, written by the world's eleverest newspape? contributors and part of our

Special Service

run exclusively ta this paper in this territory. Good live matter of interest to all. An education in itself. Start this week and read them all. Equal to special features of any of the best magazines and covering the things of special interest e throughout the world.



should interest you, at least one of the national sports. Each week, we run a good live sport-ing department, covering the clean end of the game. This is part of our

Special Newspaper

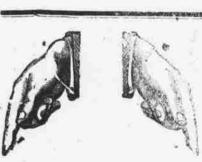
and is composed of writings of the best known authorities in the sporting world. Short write-ups of popular ideas, photo re-productions of your favorite star and a classy line of ad-vance information that will in-terest you. Read it made a week for pleasure.

Service

Every Family In

Darke County should be well supplied with good, interesting and instructive reading. Just what you want is the Greenville Journal, which will be sent to any address in the county for \$1.00 per cents out of the county for \$1.15. Did you ever stop to think that in one year the Journal furnishes two thousand, nine nundred and twaive columus . fa.... matter And a \$1.00less than two cents perweek! Come in and give us your subscription, and if you have a friend living at a distance who would appreciate the news from old Darke, you couldn't do a petter act than to make him a present of

No subscriptions taken unless accompaniea with the cash.



A Special Offer

We will pay \$5 eash to any person who will get Fifteen yearly subscribers for THE JOURNAL, with the cash. You can work in any part of the county or city, or outside of the city. The price is \$1 per year in county, and \$1.15 outside the county, For further information, samples, etc., write or call at this office.